



Final Assembly Instructions - Truck Hydraulic Wing Back blade

- Step 1 You should receive the following for complete assembly
- 1 - Crate with moldboard/QD/Hyd Pump assembly.
 - 1 - Box with truck mount and QD arms specific to your installation.
 - 1 or 2 - Wing boxes specific to the size of back blade to be assembled.
- Make sure all containers are accounted for and are the correct sizes for your installation.
- Step 2 Disassemble top framing of crate, leaving moldboard on crate. DO NOT unbolt QD channel from crate.
- Step 3 Open wing and truck mount boxes to familiarize yourself with the contents to be assembled.
- Step 4 Install mount on truck as per instructions in mount box. Also install electrical harness and switches / plugs as shown in electrical instructions.
- Step 5 Its time to remove the blade from the crate. With an assistant remove the 2 lag bolts holding down the QD channel. Ebling recommends lifting the blade with a machine equipped with pallet forks like a forklift. It is recommended that 3 straps be used for proper balance of the blade while lifting. Ebling recommends strapping to both upper linkage arm clevis's where they meet the moldboard and to one upper linkage arm clevis where it meets the QD channel. Do NOT strap to the hydraulic hose guides. Lift the blade up just enough to remove the crate then slowly lower it down to the ground. Use extreme Caution while lifting. Be sure to use properly rated strapping capable of lifting the load. This 3 point strapping system also works well for moving the blade around with the wings attached.
- Step 6 Take the QD arms and any spacers out of the mount box and refer to the vehicle specific Truck mount and Arm setting sheet. Assemble QD arms to the QD channel as stated for your truck. Coat hex blocks with anti-seize for future adjustments. Torque bolts as shown in torque chart.
- Step 7 This step will require an assistant since wings are heavy and bulky. Remove hinge pin from wing and spread grease up and down it. Spread grease on the inside of the hinge barrels of the wing and moldboard. Position wing in hinge barrels of moldboard with wing parallel to moldboard and reinstall hinge pin. Fasten with 9/16" SAE flat washer and secure with

5/32" x 1 1/4" cotter pin. Bend pin over.

- Step 8 Hold dead end of hydraulic cylinder to clevis on back of moldboard and insert 3/4 x 3 1/2" clevis pin and secure with 5/32" x 1 1/4" cotter pin.
- Step 9 Now line up live end of cylinder with wing arm and insert shear bolt with 1 flat washer from top down, finish with 1 flat washer and nylock on bottom. Tighten until washers are against clevis surfaces but do not overtighten.
- Step 10 Remove plugs from cylinder ports and pull wing forward. You will check / adjust for 90 degrees in an upcoming step.
- Step 11 Place hydraulic fittings in cylinder ports and tighten. Then connect hoses to fittings and tighten. Do not overtighten.
- Step 12 Repeat steps 6 - 10 for other wing.
- Step 13 Fill hydraulic pump with 1 QT of fluid provided as shown in owners manual section 12.5
Position truck with mount pockets just in front of QD arms (2-3 inches).
Plug in control and power connections to truck.
- Step 14 Run pump using remote switch (ignition must be on). Move switch down to raise arms and up to lower arms until QD arms are lined up with pockets on truck mount. Back the truck up until arms are fully inserted into QD pockets.
- Step 15 Install QD pins and secure them to the mount with 5/16"x1" bolts and nylocks. You may need to "bump" remote switch up or down to align holes for pins.
- Step 16 Once QD pins are bolted in place, raise the blade and add 1 more QT of Fluid. Now run blade up and down fully a couple of times to remove any air from the hydraulic system.
Now with blade fully up run each wing separately fully open and closed a couple times to purge air out of the system.
Top off the pump with another aprox 0.75 QT of fluid.
Total fluid capacity is aprox 2.85 QTS

Note: Proper fluid level is 1" down from top of reservoir **WITH BLADE FULLY UP AND BOTH WINGS FULLY OPEN** (a light will be useful in seeing fluid level), **if level is adjusted with wings closed or blade down, fluid will be forced out of the vent when blade is activated.**

- Step 17 With the wings closed and the blade in the down position, with no down pressure, the tips of the wings should be approx 1" off the ground. This is to account for down pressure and any play in arm pins. If moldboard is not vertical then the upper arms need to be adjusted. Refer to owners manual sec 12.8.1
- Step 18 With wings fully closed check wing alignment to moldboard. Wing should be 90 degrees to moldboard. If this needs to be adjusted refer to owners manual sec 12.8.3 for instructions.
- Step 19 Attach wing marker flags to both wings.
- Step 20 Now check all functions with the in cab controller and the rear remote switch. Backblade is now installed and adjusted for plowing. Be sure to check cutting edge wear as using and make any adjustments necessary to prolong the life of the edges.